

In the Claims

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1. (Presently Amended) A method for determining computer hardware requirements  
for a yet-to-be built database management system server using user defined workload  
requirements, the method comprising the steps of:  
obtaining at least one user defined workload requirement;  
~~determining~~ calculating the database management system server hardware requirements  
for the yet-to-be built database management system server as a function of said user defined  
workload requirement; and  
~~displaying~~ outputting said yet-to-be built database management system server  
requirements.

2. (Presently Amended) A method according to claim 1, wherein said user defined  
workload requirement includes a plurality of inputs from a user including a server type, a ~~maxi-~~  
~~num~~ maximum desired processor utilization, and a transactions per second requirement.

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3. (Presently Amended) A method according to claim 1, wherein said outputs  
include a number of processors requirement, a memory size requirement, and a mass storage  
requirement for the yet-to-be built database management system server.

4. (Presently Amended) A method according to claim 1, wherein said outputs  
~~further~~ comprise properties including an expected effective CPU utilization for the yet-to-be built  
database management system server based on the user defined workload requirements.

1 5. (Presently Amended) A method according to claim 1, wherein said outputs  
2 further comprise properties including an expected number of users that can be supported by the  
3 yet-to-be built database management system server based on the user defined workload  
4 requirements.

1 6. (Presently Amended) A method according to claim 1, wherein said outputs  
2 further comprise properties including an expected effective CPU utilization and an expected  
3 number of users supported by the yet-to-be built database management system server based on  
4 the user defined workload requirements.

1 7. (Presently Amended) A ~~computerized method for determining computer~~  
2 ~~hardware requirements for a database management system server as recited in~~ according to claim  
3 7 1, wherein said user defined workload requirements includes ~~include~~ a baseline system  
4 transactions per second, and said ~~properties~~ outputs include a calculated transactions per second  
5 value, and a ratio of said calculated transactions per second to said baseline transactions per  
6 second, and wherein said ~~calculating~~ determining step ~~calculates~~ determines values for said  
7 calculated transactions per second and said transactions per second ratio.

1 8. (Presently Amended) A method for determining computer hardware requirements  
2 for a yet-to-be-built database management system server using a user-defined workload, the  
3 method comprising the steps of:  
4 ~~obtaining at least one input from a user;~~

5 obtaining from said a user a plurality of transactions definitions, wherein each of said  
6 transactions definitions have a transaction workload contribution and an expected execution rate  
7 per second;

8 calculating a total expected workload as a function of said transactions definitions;  
9 ~~transaction workload contribution, and transaction execution rate; and~~

10 ~~display outputting~~ said total workload to said human user.

1 9. (Presently Amended) A method according to claim 8 16, further comprising the  
2 step of obtaining ~~wherein said inputs include~~ a server type from said user.

1 10. (Presently Amended) A method according to claim 8 16, further comprising the  
2 step of obtaining ~~wherein said inputs include~~ a maximum desired processor utilization.

1 11. (Presently Amended) A method according to claim 8 16, further comprising the  
2 step of obtaining ~~wherein said inputs include~~ a maximum desired network interface card  
3 utilization.

1 12. (Presently Amended) A method according to claim 8 16, further comprising the  
2 step of obtaining ~~wherein said inputs include~~ a server type, a LAN speed, a maximum desired  
3 processor utilization, and a maximum desired network interface card utilization.

1 13. (Presently Amended) A method according to claim ~~12~~ 16, wherein ~~each~~ at least  
2 some of said transactions definitions include at least one SQL statement wherein each of said  
3 transaction workloads ~~are~~ is calculated by calculating a workload contribution of each of said  
4 SQL statements ~~and wherein a percent contribution of total workload is specified.~~

1 14. (Presently Amended) A method according to claim 13, wherein said SQL  
2 statements include insert, delete, update, and or select SQL statement types.

1 15. (Unchanged) A method according to claim 14, wherein  
2 said insert SQL types have parameters including a number of identical insert statements,  
3 and wherein said insert statement SQL workload contribution is a function of said statement  
4 parameters,

5 said delete SQL types have parameters including a number identical delete statements,  
6 and wherein said delete statement SQL workload contribution is a function of said statement  
7 parameters,

8 said update SQL types have parameters including a number of records to be operated on  
9 by said update statement, and wherein said update statement SQL workload contribution is a  
10 function of said statement parameters, and

11 said select SQL types have parameters including selectivity criteria, and wherein said  
12 select statement SQL workload contribution is a function of said statement parameters.

1 16. (Newly Presented) A method for determining computer hardware requirements  
2 for a yet-to-be-built database management system server using a user-defined workload, the

3 method comprising the steps of:

4 obtaining from a user a plurality of transactions definitions, wherein each of said  
5 transactions definitions have a transaction workload contribution and an expected execution rate  
6 per second;

7 determining a total expected workload as a function of said transactions definitions; and

8 determining the database management system server hardware requirements for the yet-  
9 to-be built database management system server as a function of said total expected workload.

1 17. (Newly Presented) A method according to claim 16 wherein the database  
2 management system server hardware requirements includes a processor type for the yet-to-be  
3 built database management system server.

1 18. (Newly Presented) A method according to claim 16 wherein the database  
2 management system server hardware requirements includes number of processors for the yet-to-  
3 be built database management system server.

1 19. (Newly Presented) A method according to claim 16 wherein the database  
2 management system server hardware requirements includes I/O requirements for the yet-to-be  
3 built database management system server.

1 20. (Newly Presented) A method according to claim 16 wherein the database  
2 management system server hardware requirements includes memory requirements for the yet-to-

3 be built database management system server.

1 21. (Newly Presented) Computer executable code stored on machine readable  
2 media for determining computer hardware requirements for a yet-to-be-built database  
3 management system server using a user-defined workload, the computer executable code  
4 performing the steps of:

5 obtaining from a user a plurality of transactions definitions, wherein each of said  
6 transactions definitions have a transaction workload contribution and an expected execution rate  
7 per second;

8 determining a total expected workload as a function of said transactions definitions; and

9 determining the database management system server hardware requirements for the yet-  
10 to-be built database management system server as a function of said total expected workload.